4	9 32 / 9	Supplying and fixing electro mechanical timer (without contactor) using necessary bolts, nuts and waqshers etc.. Group A, PWD Elec SR 2006-07.	Nos	1	4200.00	4200.00
5	6.12.4	Supply and fixing of 4-pole power contactor with NO/NC contacts on existing wood / panel board using necessary bolts, nuts, washers and wiring etc., complete. d) 100-125 Amps	Nos	1	9915.00	9915.00
6	47/6.16 .2	Supplying and fixing miniature circuit breakes on exisiting MCB distribution boards using necessary fixing materials and wiring complete as required. b)40-63 Amps SP, Group 'A'	Nos	4	677.00	2708.00
7	6/2.6.7	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and **Copper** conductor single core cable in open or consealed system of wiring.I Group A Materials.g)16 sqmm	Mtrs	10	132.00	1320.00
8	6/2.6.2	1.5 sqmm	Mtrs	150	15.90	2385.00
9	55/7.1	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit … The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia	Nos	1	2727.00	2727.00
10	45/6.7. 4	Supplying and fixing of Procelain fuse channel with cut out on exisiting wooden/panel using necessary nuts, bolts and washers etc., complete.d) 100 Amps	Nos	3	360.00	1080.00
11	62/7.12 .3	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. b)50mm	Mtrs	6	391.00	2346.00
12	49/6.40 .2	Fabricating supplying and mounting MS box made out… SWG suitable lfor floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size cdlamps with mecessary cable entry pipe with gland and box should be finished with 2 cdoats of red oxide primer paint and finally finished with approved colour enameled metal pain etc., complete. b)16 swg	sqcms	30000	0.33	9900.00
13	49/6.39 .1	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat… with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm	Mtrs	5	263.00	1315.00
14	55/7.3	Supplying and running of Gl/Copper strips for grounding connections, using necessary fixing materials as required.I GI Strip. B)25X3mm	Mtrs	5	77.00	385.00

BRUHAT BANGALORE MAHANAGARA PALIKE

Yelahanka Zone, Electrical Division

Name of Work:-Detailed Estime for Providing LED Street lights and control switches and other accessories Veerasagara Main road ,BHEL Layout Best County layout Surrounding area in Ward No 03.

Ward No. 04 **Estimate No:-** 84 **For Rs.** **500000.00**

Sl. No.	Page &	Description of Work	Unit	Qty	Rate	Amount
1	35/5.16 .2	Fabricating, supplying and erection of ...Mtrs long hot dip Galvanized Conical pole with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for .....Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom .....mm, top....mm with 3mm thick, suitable base plate and 4Nos of ..... long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc.,(excluding foundation) as per drawing appended. 3 meters - Top 75mm and bottom 105 mm dia	Nos	22	5724.00	125928.00
2	108 /17.1.2	Supplying & fixing of 32 mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 or rail or RCC pole/wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires complete. Using 32mm dia G.I pipe	Nos	23	893.00	20539.00
3		LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with	Nos	23	6912.00	158976.00

15	62/7.13.2	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.16 Sq mm	Nos	2	280.00	560.00
16	55/7.4.5	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanished, steel wire/steel tap armoured cable with PVC outer sheating 1.1 KV class.I. Class 'A' PVC Cable. 4 core 16 sqmm	Mtrs	500	140.40	70200.00
17		3.5 core 25 sqmm	Mtrs	50	165.00	8250.00
18	61/7.8.2	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 6 sqmm to 16 sqmm	Mtrs	500	10.80	5400.00
19		b)25sqmm to 75 sqmm	Mtrs	50	16.00	800.00
20	62/7.9.1	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete. (As perCivil SR KSRB l-2, P-7).a) In soil (ordinary)	Mtrs	450	78.00	35100.00
21	pwd sr 14-15	Providing Rcc Pole pedstal of Size 0.3x0.3x0.8 Mtrs Including digging of pit, tor steel, anchoring bolts nuts ,templates ,Centring,1;4;8base concrete,1;2;4pedestal concrete and etc coplete as per the data sheet enclosed	22	25	1080.00	27000.00
22		BESCOM DEPOSITE & Meter CHARGES				8966.00
		Total				**500000.00**

CERTIFICATE

1. The Place was inspected and work is essential.
2. The Provision made in the estimate is adequate and are necessary.
3. The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.
4. The rates in the Estimate is based on PWD (Elec) SR of 2014-15 /lowest quotation rates/ approved Rates

Asst. Engineer (Elec)

Asst. Exe.Engineer (Elec)
Sub-Division No.
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
YALAHANKA DIVISION
BRUHAT BANGALORE MAHANAGARA PALIKE

Administrative Sanction for Rs. 5.00 LAKHS
RUPEES FIVE LAKHS ONLY
is accorded under the P 3290. 14th FINANCE
COMMISSION WORKS - PROVIDING
STREET LIGHTS AND MAINTENANCE
Registered as EE No. 67/18-19 Subject
to conditions contained in endorsement
No. BBMP/EE/ELE/42/AS/67/18-19
Dt 23.02.2019

Executive Engineer

TECHNICALLY SANCTIONED FOR Rs. 5.00 LAKHS
Rupees FIVE LAKHS ONLY
Under P3290 14th FINANCE COMMISSION
WORKS PROVIDING STREE LIGHTS
Registered as EE ( ) No. 6/18-19
Subject to conditions contained in
endorsement No. EE ( ) No. BBMP/EE/ELE/42/AS/67/18-19
Dt. 23-02-2019 Estimate is Sanctioned
BBMP/EE/ELE/42/TS/61/2018-19
Dated 23-02-2019 Rs. 5-00 Lakhs

Executive Engineer